



Tripp Lite
1111 West 35th Street
Chicago, IL 60609 USA
Telephone: +(773) 869 1234
E-mail: saleshelp@tripplite.com

Model #: SMART2200NET

Smart Pro UPS System - Intelligent, line-interactive battery backup for network and telecommunications System



Highlights

- 2200VA / 2.2kVA line interactive, extended-run tower UPS
- Maintains 120V nominal output over an input range of 87 to 140V
- Network communications supported via 3 DB9 ports (1 serial / 2 contact closure)
- Input: NEMA 5-15P (120V 15A) / Output: 6 NEMA 5-15R (120V)
- 2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite's SMART 2200NET intelligent, line interactive large tower UPS system protects servers, networking accessories and telecommunications equipment from blackouts, voltage fluctuations and transient surges. Large internal batteries offer 27 minutes half load runtime and 11 minutes fully loaded. Runtime is expandable with optional BP24V28-2U (limit 1) and BP24V70-3U external battery packs. 2200VA/1700 watt power handling capability supports a variety of networking, telecom and other sensitive electronic applications. Includes 6 protected outlets. Supports remote monitoring of UPS and site power conditions via built-in RS-232 enabled monitoring port, plus standard UPS monitoring via 2 built in contact closure ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in audible alarm and front panel LEDs indicate line power, battery power, battery charge level, load level, plus voltage regulation status. Network grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges. Two year warranty with \$250,000 [connected equipment insurance](#).

Applications

- Ideal for the protection of communication equipment including: routers, hubs, switches, IP-PBX, Traditional PBX and Key/Hybrid Telephone Systems. Also ideal for the protection of data processing equipment such as file servers, workstations and other sensitive devices requiring clean, continuously regulated output power. Extended runtimes are available using additional external battery packs.

Package Includes

- SMART 2200NET UPS System
- PowerAlert Software and three 6 foot network cables
- Warranty information
- Instruction manual

Features

- SMART 2200NET line interactive UPS offers battery derived AC output during power outages, voltage regulation during brownouts and overvoltages, plus network-grade AC surge suppression
- 2200VA/1700 watt power handling capability supports a variety of networking, telecom and other sensitive electronic devices
- Large internal batteries offer runtimes of 27 minutes at half load (1100VA/850 watts) and 11 minutes at full load (2200VA/1700 watts)
- Runtime is further expandable with optional external BP24V28-2U (limit 1) and BP24V70-3U (multi-pack compatible) battery packs (output VA is derated as external battery packs are added, see specifications)

- Automatic Voltage Regulation (AVR) circuits maintain 120V nominal output over an input voltage range of 87-140V
- Includes 6 fully protected NEMA 5-15R outlets with 2 single outlet load banks that can be individually powered off and back on again via software interface
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, email notification, event logging and running user defined script commands
- Offers simultaneous monitoring of up to 3 directly connected devices through included DB9 contact closure and RS-232 enabled interfaces, or the monitoring of any number of additional servers over IP with included PowerAlert monitoring software
- In addition to the contact closure monitoring of on battery, low battery and power restored messaging, built-in RS-232 interface supports messaging of UPS and line power status, including AC line voltage, DC battery voltage and remaining battery capacity
- Supports activate self-test and UPS output power control for delayed or immediate reboot of connected equipment
- Diagnostic LEDs (indicate 17 performance conditions)
- UL (USA), cUL (Canada), NOM (Mexico), FCC Class A (Business) Listed
- \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada Only)

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC
Frequency compatibility	60 Hz
OUTPUT	
Output VA	2200
Output watts	1700
Output nominal voltage	120V AC
Output voltage regulation	LINE MODE: Sine wave line voltage 120V (-13% / +5%) BATTERY MODE: PWM sine wave output 120V +/-5%
Output frequency regulation	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type	6 NEMA 5-15R
Customized load management receptacles	2 individually controlled single-outlet banks supports reboot of selected items and load shedding to increase battery runtime for the most critical of loads.
Overload protection	Via 20A input breaker
INPUT	
Maximum input amps	15A, 1770 watts
Input connection type	NEMA 5-15P
Input cord length	8 ft., 12 gauge
Recommended Electrical Service	20A 120V
BATTERY	
Full load runtime	11 minutes (2200VA)
Half load runtime	27 minutes (1100VA)
Expandable battery runtime	Supports extended runtime with optional BP24V28-2U (limit 1) and BP24V70-3U (multi-pack compatible) external battery pack. Capacity de-rates to 1600VA / 1280 watts with 1 external BP and 1250VA / 800 watts with 2 external BPs
DC system voltage	24 V DC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	2-4 hours to 90%
VOLTAGE REGULATION	
Voltage regulation description	Line interactive UPS offers 2 boost levels of brownout correction and a single level of overvoltage adjustment to maintain usable, computer grade output without consuming battery power.

Overvoltage correction	Input voltages between 127 and 140V AC are reduced by 12%
Direct pass through	Input voltages between 110 and 127V AC are passed through unchanged
Brownout correction	Input voltages between 95 and 105V AC are boosted by 10%
Severe brownout correction	Input voltages between 87 and 94V AC are boosted by 22%
LEDS ALARMS & SWITCHES	
Front panel LEDs	Includes 5 front panel LEDs to indicate BATTERY CHARGE LEVEL, AC LINE POWER STATUS, VOLTAGE REGULATION STATUS, UPS LOAD LEVEL and BATTERY LOW / REPLACE information
Alarms	Audible alarm with 15 second delay sounds to indicate loss of utility power. Alarm can be silenced by pressing front panel alarm cancel button. Once silenced, alarm will re-sound when approximately 2 minutes runtime remain.
Switches	Includes 2 front panel switches — one on/standby power switch and one dual function "alarm cancel" / "self test" button, plus 1 rear panel system enable switch
SURGE / NOISE SUPPRESSION	
AC surge suppression	480 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Shipping weight (lbs)	87
Shipping weight (kg)	39.5
Shipping Dimensions (HWD/in)	22.25 x 12.75 x 16.5
Shipping Dimensions (HWD/cm)	57.2 x 32.4 x 42
Unit weight (lbs)	80
Unit weight (kg)	36.3
Unit Dimensions (HWD/in)	17 x 9 x 12.5
Unit Dimensions (HWD/cm)	41.9 x 22.9 x 31.1
Material of construction	Polycarbonate
Form factors supported	Tower
Cooling method	Convection
Receptacle Color	Black
ENVIRONMENTAL	
Relative Humidity	0 to 95%, non-condensing
Storage Temperature	+5 to +122 degrees Fahrenheit, -15 to +50 degrees Celsius
Operating Temperature	+32 to +104 degrees Fahrenheit, 0 to +40 degrees Celsius
Line mode BTU/hr. (Max.)	148.2
Battery mode BTU/hr. (Max.)	502.6
COMMUNICATIONS	

Network monitoring port	Includes 3 built-in DB9 monitoring ports, 1 enabled with RS-232 data communications and 2 with standard contact closure communications. All interfaces support on battery, low battery and power restored messaging. RS-232 enabled port adds data regarding AC
Software and cabling included	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems.
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	2-4 milliseconds
Low voltage transfer to battery power	Switches to battery power as line voltage decreases to 87 volts or less
High voltage transfer to battery power	Switches to battery power as line voltage increases to 140 volts or higher.
SPECIAL FEATURES	
Appearance	Black tower UPS
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP24V28-2U (limit 1) and BP24V70-3U (multi-pack compatible)
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico)
WARRANTY	
Product Warranty Period	2 year product warranty
Connected Equipment Coverage	\$250,000 connected equipment insurance (USA / Canada only)
Optional Coverage	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information

Related Items

Extended Warranties		
WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	Qty: [optional]
WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	Qty: [optional]
External Battery Packs		
BP24V28-2U	External Battery Pack for UPS System (limit 1)	Qty: [optional]
BP24V70-3U	External Battery Pack for UPS System (multi-pack compatible)	Qty: [optional]
Power Distribution		
RS-1215	Tripp Lite Power Strip - Multiple outlets wherever you need them	Qty: [optional]
PDU1215	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
Surge Protectors		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=40.

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